

BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTTTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL

```
BBBBBBBBB      AAAAAA      SSSSSSSS      FFFFFFFF      EEEEEEEEE      TTTTTTTTT      CCCCCCCC      HH      HH      AAAAAA
BBBBBBBBB      AAAAAA      SSSSSSSS      FFFFFFFF      EEEEEEEEE      TTTTTTTTT      CCCCCCCC      HH      HH      AAAAAA
BB      BB      AA      AA      SS      FF      EE      TT      CC      HH      HH      AA      AA
BB      BB      AA      AA      SS      FF      EE      TT      CC      HH      HH      AA      AA
BB      BB      AA      AA      SS      FF      EE      TT      CC      HH      HH      AA      AA
BBBBBBBBB      AA      AA      SSSSSS      FFFFFFFF      EEEEEEE      TT      CC      HH      HH      AA      AA
BBBBBBBBB      AA      AA      SSSSSS      FFFFFFFF      EEEEEEE      TT      CC      HH      HH      AA      AA
BB      BB      AAAAAAAAAA      SS      FF      EE      TT      CC      HH      HH      AAAAAAAAAA
BB      BB      AAAAAAAAAA      SS      FF      EE      TT      CC      HH      HH      AAAAAAAAAA
BB      BB      AA      AA      SS      FF      EE      TT      CC      HH      HH      AA      AA
BB      BB      AA      AA      SS      FF      EE      TT      CC      HH      HH      AA      AA
BBBBBBBBB      AA      AA      SSSSSSSS      FFFFFFFF      EEEEEEEEE      TT      CCCCCCCC      HH      HH      AA      AA
BBBBBBBBB      AA      AA      SSSSSSSS      FFFFFFFF      EEEEEEEEE      TT      CCCCCCCC      HH      HH      AA      AA

```

....
....
....
....

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS

```



```

1 0001 0 MODULE BASS$FETCH_ADDR (
2 0002 0 IDENT = '1-004'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: BASIC Language Support
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module calculates the address of a non-virtual array
36 0036 1 element. It is called by the compiled code for the LOC
37 0037 1 function and for arrays passed as parameters.
38 0038 1
39 0039 1 ENVIRONMENT: VAX-11 User Mode
40 0040 1
41 0041 1 AUTHOR: Pamela L. Levesque, CREATION DATE: 19-FEB-1982
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1 1-001 - Original. PLL 19-Feb-1982
46 0046 1 1-002 - Add support for decimal arrays. This involves calculating the
47 0047 1 size of elements in bytes (the length in the descriptor is the
48 0048 1 number of digits not including the sign), and using that length
49 0049 1 to calculate the linear index. PLL 12-Mar-1982
50 0050 1 1-003 - Offset for 1st index is 1, not 2. PLL 19-Mar-1982
51 0051 1 1-004 - Return address of descriptor for dynamic strings. PLL 29-Mar-1982
52 0052 1 --
53 0053 1
54 0054 1 !<BLF/PAGE>

```

! Fetch address of array element
! File: BAS\$FETCHA.B32 Edit: PLL1004

```
56 0055 1 |
57 0056 1 | SWITCHES:
58 0057 1 |
59 0058 1 |
60 0059 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
61 0060 1 |
62 0061 1 |
63 0062 1 | LINKAGES:
64 0063 1 |
65 0064 1 | NONE
66 0065 1 |
67 0066 1 |
68 0067 1 | TABLE OF CONTENTS:
69 0068 1 |
70 0069 1 |
71 0070 1 | FORWARD ROUTINE
72 0071 1 | BASS$FETCH_ADDR; | Fetch address of array element
73 0072 1 |
74 0073 1 |
75 0074 1 | INCLUDE FILES:
76 0075 1 |
77 0076 1 |
78 0077 1 | REQUIRE 'RTLIN:RTLPSECT'; | Macros for defining psects
79 0172 1 |
80 0173 1 | LIBRARY 'RTLSTARLE'; | System symbols
81 0174 1 |
82 0175 1 |
83 0176 1 | MACROS:
84 0177 1 |
85 0178 1 | NONE
86 0179 1 |
87 0180 1 | EQUATED SYMBOLS:
88 0181 1 |
89 0182 1 | NONE
90 0183 1 |
91 0184 1 | PSECTS:
92 0185 1 |
93 0186 1 | DECLARE_PSECTS (BAS); | Declare psects for BASS$ facility
94 0187 1 |
95 0188 1 | OWN STORAGE:
96 0189 1 |
97 0190 1 | NONE
98 0191 1 |
99 0192 1 | EXTERNAL REFERENCES:
100 0193 1 |
101 0194 1 | EXTERNAL ROUTINE
102 0195 1 | BASS$$STOP : NOVALUE; | Signal fatal error
103 0196 1 |
104 0197 1 | EXTERNAL LITERAL
105 0198 1 | BASS$K_ARGDONMAT : UNSIGNED (8),
106 0199 1 | BASS$K_NOTIMP : UNSIGNED (8),
107 0200 1 | BASS$K_SUBOUTRAN : UNSIGNED (8),
108 0201 1 | BASS$K_TOOFEWARG : UNSIGNED (8),
109 0202 1 | BASS$K_TOOMANARG : UNSIGNED (8);
110 0203 1 |
111 0204 1 |
```



```
113 0205 1 GLOBAL ROUTINE BASSFETCH_ADDR (
114 0206 1     DESCRIPTOR,
115 0207 1     INDEX1
116 0208 1 ) : =
117 0209 1
118 0210 1 ++
119 0211 1 FUNCTIONAL DESCRIPTION:
120 0212 1
121 0213 1     Given a descriptor for the array and the indices, calculate
122 0214 1     the address of an element. Take into account that this may
123 0215 1     be a FORTRAN array. This routine does not handle virtual
124 0216 1     arrays.
125 0217 1
126 0218 1 FORMAL PARAMETERS:
127 0219 1
128 0220 1     DESCRIPTOR.rx.da The descriptor of the array
129 0221 1     INDEX1.rl.v     The first index into the array. More indices
130 0222 1                   may follow this one in the calling sequence.
131 0223 1
132 0224 1 IMPLICIT INPUTS:
133 0225 1
134 0226 1     NONE
135 0227 1
136 0228 1 IMPLICIT OUTPUTS:
137 0229 1
138 0230 1     NONE
139 0231 1
140 0232 1 ROUTINE VALUE:
141 0233 1
142 0234 1     The address of the element is returned
143 0235 1
144 0236 1 COMPLETION CODES:
145 0237 1
146 0238 1     NONE
147 0239 1
148 0240 1 SIDE EFFECTS:
149 0241 1
150 0242 1     Signals if an error is encountered.
151 0243 1
152 0244 1 --
153 0245 1
154 0246 2 BEGIN
155 0247 2
156 0248 2 BUILTIN
157 0249 2     ACTUALCOUNT,
158 0250 2     ACTUALPARAMETER;
159 0251 2
160 0252 2 LOCAL
161 0253 2     INDEX_VALUE,
162 0254 2     VALUE_LOCATION,
163 0255 2     MULTIPLIERS : REF VECTOR,
164 0256 2     BOUNDS : REF VECTOR,
165 0257 2     LOW_INDEX,
166 0258 2     HIGH_INDEX,
167 0259 2     INDEX_INCR,
168 0260 2     INDEX_NUMBER,
169 0261 2     VALUE_ADDR,
```

```
! Fetch address of array element
! The descriptor
! First index
```

```
170      0262      2      LENGTH;
171      0263
172      0264      MAP
173      0265      DESCRIP : REF BLOCK [8, BYTE];
174      0266
175      0267      !+
176      0268      Be sure the number of array subscripts matches the number of
177      0269      indices given to us.
178      0270      !-
179      0271
180      0272      IF ((ACTUALCOUNT () - 1) NEQU .DESCRIP [DSC$B_DIMCT])
181      0273      THEN
182      0274      BEGIN
183      0275
184      0276      IF ((ACTUALCOUNT () - 1) LSSU .DESCRIP [DSC$B_DIMCT])
185      0277      THEN
186      0278      BAS$$STOP (BAS$K_TOOFEWARG)
187      0279      ELSE
188      0280      BAS$$STOP (BAS$K_TOOMANARG);
189      0281
190      0282      END;
191      0283
192      0284      !+
193      0285      The coefficients and bounds must be present.
194      0286      !-
195      0287
196      0288      IF ( NOT (.DESCRIP [DSC$V_FL_COEFF] AND .DESCRIP [DSC$V_FL_BOUNDS])) THEN BAS$$STOP (BAS$K_ARGDONMAT);
197      0289
198      0290      MULTIPLIERS = DESCRIP [DSC$L_M1];
199      0291      BOUNDS = DESCRIP [DSC$L_M1] * (%UPVAL*.DESCRIP [DSC$B_DIMCT]);
200      0292      !+
201      0293      Compute the lower and upper index numbers based on how the array
202      0294      is stored.
203      0295      !-
204      0296
205      0297      IF (.DESCRIP [DSC$V_FL_COLUMN])
206      0298      THEN
207      0299      BEGIN
208      0300      LOW_INDEX = .DESCRIP [DSC$B_DIMCT];
209      0301      HIGH_INDEX = 1;
210      0302      INDEX_INCR = -1;
211      0303      END
212      0304      ELSE
213      0305      BEGIN
214      0306      LOW_INDEX = 1;
215      0307      HIGH_INDEX = .DESCRIP [DSC$B_DIMCT];
216      0308      INDEX_INCR = 1;
217      0309      END;
218      0310
219      0311      INDEX_NUMBER = .LOW_INDEX - .INDEX_INCR;
220      0312      !+
221      0313      Recompute decimal length if necessary.
222      0314      !-
223      0315
224      0316      IF .DESCRIP [DSC$B_DTYPE] EQL DSC$K_DTYPE_P
225      0317      THEN
226      0318      LENGTH = .DESCRIP [DSC$W_LENGTH]/2 + 1
227      0319      ELSE
```



```
227 0319 2      LENGTH = .DESCRIP [DSC$W_LENGTH];
228 0320 2
229 0321 2      !+ Compute the linear index from the indices provided.
230 0322 2      !-
231 0323 2      VALUE_LOCATION = 0;
232 0324 2
233 0325 2      WHILE ((INDEX_NUMBER = .INDEX_NUMBER + .INDEX_INCR) NEQ (.HIGH_INDEX + .INDEX_INCR)) DO
234 0326 2      BEGIN
235 0327 2      INDEX_VALUE = ACTUALPARAMETER (.INDEX_NUMBER + 1);
236 0328 2
237 0329 2      IF ((.INDEX_VALUE LSS .BOUNDS [(INDEX_NUMBER - 1)*2]) !
238 0330 2      OR (.INDEX_VALUE GTR .BOUNDS [(INDEX_NUMBER - 1)*2 + 1]))
239 0331 2      THEN
240 0332 2      BASS$STOP (BASS$K_SUBOUTRAN);
241 0333 2
242 0334 2      VALUE_LOCATION = (.VALUE_LOCATION*.MULTIPLIERS [INDEX_NUMBER - 1]) + .INDEX_VALUE;
243 0335 2      END;
244 0336 2
245 0337 2      VALUE_LOCATION = (.VALUE_LOCATION*.LENGTH) + .DESCRIP [DSC$A_A0];
246 0338 2
247 0339 2      !+ Check for an array of descriptors. Fetch the address from the pointer
248 0340 2      !- field of the descriptor if necessary.
249 0341 2
250 0342 2
251 0343 2      IF (.DESCRIP [DSC$B_DTYPE] EQLU DSC$K_DTYPE_DSC)
252 0344 2      THEN
253 0345 2      BEGIN
254 0346 2      MAP
255 0347 2      MAP
256 0348 2      VALUE_LOCATION : REF BLOCK [8, BYTE];
257 0349 2
258 0350 2      IF .VALUE_LOCATION [DSC$B_DTYPE] NEQ DSC$K_DTYPE_T
259 0351 2      THEN
260 0352 2      VALUE_ADDR = .VALUE_LOCATION [DSC$A_POINTER]
261 0353 2      ELSE
262 0354 2      VALUE_ADDR = .VALUE_LOCATION;
263 0355 2      END
264 0356 2      ELSE
265 0357 2      BEGIN
266 0358 2      VALUE_ADDR = .VALUE_LOCATION;
267 0359 2      END;
268 0360 2
269 0361 2
270 0362 2      IF (.DESCRIP [DSC$B_CLASS] NEQU DSC$K_CLASS_A) THEN BASS$STOP (BASS$K_NOTIMP);
271 0363 2
272 0364 2      RETURN .VALUE_ADDR;
273 0365 2
274 0366 2
275 0367 2      END;
```

! end of BASSFETCH_ADDR

```
.TITLE BASSFETCH_ADDR
.IDENT \1-004\

.EXTRN BASS$STOP, BASS$K_ARGDONMAT
.EXTRN BASS$K_NOTIMP, BASS$K_SUBOUTRAN
.EXTRN BASS$K_TOOFEWARG
```


				OFFC 00000			
		5B	00000000G	00	9E	00002	
		50		6C	9A	00009	
				50	D7	0000C	
		56	04	AC	D0	0000E	
		52	0B	A6	9A	00012	
		52		50	D1	00016	
				17	13	00019	
		50		6C	9A	0001B	
				50	D7	0001E	
		52		50	D1	00020	
				06	1E	00023	
		7E	00G	8F	9A	00025	
				04	11	00029	
		7E	00G	8F	9A	0002B	1\$:
		6B		01	FB	0002F	2\$:
05	0A	A6		06	E1	00032	3\$:
			0A	A6	95	00037	
				07	19	0003A	
		7E	00G	8F	9A	0003C	4\$:
		6B		01	FB	00040	
		55	14	A6	9E	00043	5\$:
		57	14	A6	DE	00047	
0B	0A	A6		05	E1	0004C	
		51		52	D0	00051	
		50		01	D0	00054	
		58		01	CE	00057	
				09	11	0005A	
		51		01	D0	0005C	6\$:
		50		52	D0	0005F	
		58		01	D0	00062	
52		51		58	C3	00065	7\$:
		15	02	A6	91	00069	
				0A	12	0006D	
		54		66	3C	0006F	
		54		02	C6	00072	
				54	D6	00075	
				03	11	00077	
		54		66	3C	00079	8\$:
				53	D4	0007C	9\$:
5A		50		58	C1	0007E	
		52		58	C0	00082	10\$:
		5A		52	D1	00085	
				2A	13	00088	
		59	04	AC	D0	0008A	
50		52		01	78	0008F	
	F8	A740		59	D1	00093	
				07	19	00098	
	FC	A740		59	D1	0009A	
				07	15	0009F	
		7E	00G	8F	9A	000A1	11\$:
		6B		01	FB	000A5	

.EXTRN	BASSK_TOOMANARG	
.PSECT	_BASSCODE,NOWRT, SHR, PIC,2	
.ENTRY	BASSFETCH_ADDR, Save R2,R3,R4,R5,R6,R7,R8,-	0205
	R9,R10,R11	
MOVAB	BASS\$STOP, R11	
MOVZBL	(AP), R0	0272
DECL	R0	
MOVL	DESCRIP, R6	
MOVZBL	11(R6), R2	
CMPL	R0, R2	
BEQL	3\$	
MOVZBL	(AP), R0	0276
DECL	R0	
CMPL	R0, R2	
BGEQU	1\$	
MOVZBL	#BASSK_TOOFEWARG, -(SP)	0278
BRB	2\$	
MOVZBL	#BASSK_TOOMANARG, -(SP)	0280
CALLS	#1, BASS\$STOP	
BBC	#6, 10(R6), 4\$	0288
TSTB	10(R6)	
BLSS	5\$	
MOVZBL	#BASSK_ARGDONMAT, -(SP)	
CALLS	#1, BASS\$STOP	
MOVAB	20(R6), MULTIPLIERS	0290
MOVAL	20(R6)[R2], BOUNDS	0291
BBC	#5, 10(R6), 6\$	0297
MOVL	R2, LOW_INDEX	0300
MOVL	#1, HIGH_INDEX	0301
MNEGL	#1, INDEX_INCR	0302
BRB	7\$	0297
MOVL	#1, LOW_INDEX	0306
MOVL	R2, HIGH_INDEX	0307
MOVL	#1, INDEX_INCR	0308
SUBL3	INDEX_INCR, LOW_INDEX, INDEX_NUMBER	0311
CMPL	2(R6), #21	0315
BNEQ	8\$	
MOVZWL	(R6), R4	0317
DIVL2	#2, R4	
INCL	LENGTH	
BRB	9\$	
MOVZWL	(R6), LENGTH	0319
CLRL	VALUE_LOCATION	0323
ADDL3	INDEX_INCR, HIGH_INDEX, R10	0325
ADDL2	INDEX_INCR, INDEX_NUMBER	
CMPL	INDEX_NUMBER, R10	
BEQL	13\$	
MOVL	4(AP)[INDEX_NUMBER], INDEX_VALUE	0327
ASHL	#1, INDEX_NUMBER, R0	0329
CMPL	INDEX_VALUE, -8(BOUNDS)[R0]	
BLSS	11\$	
CMPL	INDEX_VALUE, -4(BOUNDS)[R0]	0330
BLEQ	12\$	
MOVZBL	#BASSK_SUBOUTRAN, -(SP)	0332
CALLS	#1, BASS\$STOP	

BASS\$FETCH_ADDR
1-004

N 2
16-Sep-1984 00:27:26
14-Sep-1984 11:54:57

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASFETCHA.B32;1

Page 7
(3)

50	53	FC A542	C5 000A8	12\$:	MULL3	-4(MULTIPLIERS)[INDEX_NUMBER], -	: 0334
53	50	59	C1 000AE		ADDL3	VALUE_LOCATION, R0	: 0325
50	53	CE	11 000B2		BRB	10\$	: 0337
53	50	54	C5 000B4	13\$:	MULL3	LENGTH, VALUE_LOCATION, R0	: 0344
	50	10	A6 C1 000B8		ADDL3	16(R6), R0, VALUE_LOCATION	: 0351
	18	02	A6 91 000BD		CMPB	2(R6), #24	: 0353
		0C	12 000C1		BNEQ	14\$	: 0359
	0E	02	A3 91 000C3		CMPB	2(VALUE_LOCATION), #14	: 0363
		06	13 000C7		BEQL	14\$	
	52	04	A3 D0 000C9		MOVL	4(VALUE_LOCATION), VALUE_ADDR	
		03	11 000CD		BRB	15\$	
	52		53 D0 000CF	14\$:	MOVL	VALUE_LOCATION, VALUE_ADDR	
	04	03	A6 91 000D2	15\$:	CMPB	3(R6), #4	
		07	13 000D6		BEQL	16\$	
	7E	00G	8F 9A 000D8		MOVZBL	#BASSK NOTIMP, -(SP)	
	6B		01 FB 000DC		CALLS	#1, BASS\$STOP	
	50		52 D0 000DF	16\$:	MOVL	VALUE_ADDR, R0	: 0365
			04 000E2		RET		: 0367

; Routine Size: 227 bytes, Routine Base: _BASS\$CODE + 0000

: 276 0368 1
: 277 0369 1 END
: 278 0370 1
: 279 0371 0 ELUDOM

! end of module BASS\$FETCH_ADDR

PSECT SUMMARY

Name	Bytes	Attributes
_BASS\$CODE	227	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	14	0	581	00:01.1

COMMAND QUALIFIERS

BAS\$FETCH_ADDR
1-004

B 3
16-Sep-1984 00:27:26
14-Sep-1984 11:54:57

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BAS\$FETCHA.B32;1

Page 8
(3)

```
; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:BAS$FETCHA/OBJ=OBJ$:BAS$FETCHA MSRC$:BAS$FETCHA/UPDATE=(ENH$:BAS$FETCHA
;
; Size:          227 code + 0 data bytes
; Run Time:      00:07.2
; Elapsed Time:  00:16.2
; Lines/CPU Min: 3078
; Lexemes/CPU-Min: 15585
; Memory Used:   103 pages
; Compilation Complete
```


0023 AH-BT13A-SE
VAX/VMS V4.0

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